

**MAGNETIC SENSOR AND PRODUCTION THEREOF**

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**Abstract**

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**PURPOSE:**To obtain a magnetic sensor comprising a core having high permeability and excellent in sensitivity and S/N ratio and a method for forming a flat core required for realization of the magnetic sensor.

**CONSTITUTION:**A planar core 2 is formed directly on an insulating layer 6(or an insulating substrate) having high surface planarity followed by formation of wiring layers 3, 4 on the opposite sides of the core 2. This method realizes a flat core having no irregularities without requiring any planarization on the wiring layer.

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